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Liew, Choong-Chin

<120> Method for the Detection of Gene Transcripts in Blood and Uses
Thereof

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<150> US

<151> 2000-01-04

<150> US 60/115,125

<151> 1999-01-06

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<170> PatentIn version 3.2

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 25 gaaaaanttt tccggggggc ccaccggga agggntnccg gggaaggg 168

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 cccacatttc cattttaat atatacttg cttacaaat attataatat gttttaaat 180
 40 atgttcacag aagcacctgg tctgtgaatg gcatgccagc attaaaaaa ataagcattc 240
 ttgaaatata tatttagttt ttaattgtg taggaaaatc aaagccagag ggagtagaaa 300
 caaaatttgt gattttctaa atactcttg gctgcaggga agaaaccag tcccaggcga 360
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438

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15 aaagggggaa ggcccccaa accggggggg gggnaaaaag gtgggtttcc ccctttttcc 180

aattcccaa accaatttc aaaaggnaaa ccaacnttc caaaaatggg aaagg 235

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 45 caaattgggg ggnaaaccaa atttaagggg ggaagggggg gncccccccg ggaaaggccc 180

aaggggggaa aatttttccg ggggtgggtn gggggaacca atttaagggg ggggcccccg 240

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15

ctgtacttga actctaaaac tgttgagaa actcagtgt tacccaaca gattcatttc 180

aatagctgt aaaaggtatg ttactccag aagaccagag ttgcttctt tgaacttctc 240

20

attccttggg cctaggaacc ctcatcacc tcaccaac gtcaaccag atcttctctt 300

ccataaacag cactccctca gggccctgcc tgacacaggc atagactgtc atgttggtt 360

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tttaggcggc accccaacaa caccaggccc tactttttc aaggncgggg aagcccatgg 180
45 gtcttgggna acgggcaatg cgggcttgca acgggnggaa naaaaacagn cccaaaagaa 240

tg 242

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 15 gcaggagct gagattgcgc cactgccctc catcctgggc gacagagcaa gaacctgtct 180

c 181

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cggaaggcc nttggggaaa aaaccaangg ncaaccccc ccaaccacnc ggcccccccc 120

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aaggggggtg gggaagagcc aaatttcttt gggaaanaac gcccccttgg ggaaaanaag 180

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ggaagaattg tatgtgggag ttttaattgg tctcattca ttgctataa ctcaattaca 180

aggagaaata taactgcaga ggagctttga aaatttagtt cagctgaggg taaaggaaga 240

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agagacaaat ttgtcatca gctagtgate tgccatacaa ggtgttcct taatatgtgt 300

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ggattaatta gacagcaaga cgcttgcggc ccctttggcg cgaacgaacn ncgaaaagga 420

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45 gagaaccccg cacaccgaaa ggctaaggat tcctccgcta tgtcaatcaa cggagggtta 180

gtcgggtact aaggcgtag cgaaggcgaa gcgccgatgt gaagggggtt aatattcctc 240

cacttgccat gcgtgtgaat ccatgacgga gacgaagccg ggggtgcgtc ctgacggaag 300

5 tgggcgccag caggggcggc ctccgggcca aaccgaacct caggtcanac ttccaagaaa 360

agtgggtgaa acgccagcgc atggcaaccc gtaccgcaaa ccgacacagg tagccggggg 420

anaacatcct aaggngctcg agagtacttt ctagagcggc cgcggggcccc atcgantttt 480

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gctggaaggc ttgnagggca gaaaagggat ccgcctttgg gaggaacca ggtaagggtt 120

aagaaggaac ccacctngg ggccaaacaa aaacttaaaa acccccccat ttentncccc 180
20 ccaaaaaaaaa aatttttaaa aaaaattttt ngcccccggg ggcattgggg g 231

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attcggcacg agggattaca gtcgtgagcc actgcacctg gctgcaatt 109

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cantcantng ttgcctntg atacccnana caaaattgaa

100

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tgnaatacta ttgcctetta tatacacnac caannntgcg aagggcnann nnaccttnc 180

cantnnnctg gggncccaen nnnngngaact gagagtggat ctgtgtacc tgacnnacca 240

20 gntntnnagn agggcgctca ctctgattgg tgcacatgg ttacacagtg tgtgcaaaga 300

ccngnctatc tcaactganga tgattgncag ngccnntggg tggcacnang ggnactgatg 360

25 ancancactg accctgccga cgccagangc cgcanatccg gagantncat gngacnatat 420

aggttaccnc cttnaccgg gcancaatct gcttctatgg tgaatgcaga ccatntagaa 480

ntctntcnct ataggeatga ttttnnncag tgcgtcagcc tganaanga ancnnacttt 540

30 tgntagatga nnnngtgctc ncccttgngg ctnacaaatt ccancacctt tgggtggcngc 600

agccnttaag ancacttntt ttgggttgcg cnttggatg aattacnaat agnntgtttt 660

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caagtacgcn agcncatgaan ctaaagcaag caagaaaaag 100

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20 tagatatggg aagattatag gaggcgacaa ctaccgagcc tggatagc tgggtgctcaa 180

gaagagtctt agttcattta ttggcccag aaccctctaa tccccttgta atttatgtca 240

agaggaacag ctctttggac actggaaaac cgtgagagag taagatttac acccttaggg 300

25 gcctaatagc agccaccatt aagaaagcgt tcgtccaca cccactacct aaaaatcgaa 360

tataactgac tctcacacc caattggcca atcattcccc tataaaagaa ctatgttagt 420

30 ataagtaacc tgaaaacatt ctctctgca taagccctgc gttggattat atcctgcact 480

gacaattaac tgcccgaata tctacaatcc aacc 515

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cntatctcaa ctaatnataa atgggaaaat gggcaactgg gcaggcngaa cccagaggga 120

40 agcctgcctt cattagacca agacagcaag gttncctg gtcactagat gaaatt 176

<210> 56
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<223> n is a, c, g, or t

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ggatttgggg ttagaggta caattgcctt tttatggta gagaaaggtc ctggggctgg 180

15

agggagcctg acgatctgct ctgtgtgcaa ggggagagtt aactctgcac gcaagagcct 240

gcttaaaggg ctgtgtcagt tctattgtaa acaccaactt aaagtgggtg atgctggcag 300

acattgttat tgccatt

317

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<210> 57

<211> 209

<212> DNA

25 <213> Human

<400> 57

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ctggactgga cactgtatac ccacatgcaa gatgaagttg gccccttaca tcctatacgc 120

aggagaattg cgtcatttaa agcctgttga cgctttctc ccgcagacga atggaaagat 180

taattgggag tgggggctga aacaattcg

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40 <213> Human

<400> 58

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accctgtcac cgagttgcga accagcctcc aatatgtgga accctgtact ctctaaaaat 120

caaatcaccg gcatggagat tgcgcctgtg gtcccaaat actcgggctg ggacacgatg 180

agttgcttgg cccaaggaag gagggttgta tggctgatca cactgggtccg cctgggtgac 240

5 agagcgagac tccatctcta at 262

<210> 59

<211> 430

10 <212> DNA

<213> Human

<400> 59

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cccgggggag gggatatccg ttataaacc ccaagggtat ttcttagca aaatacttaa 180

20 aaccggccgg ggttttata caaactggga acccactttt gaaaaattt ggcctttga 240

tctgggatgg gaatatgagt tttatacat ttcattttct tttgggcaa aggcccggtt 300

aagtattccc ccccgggggg cctttacaaa aagggcggtt taaaagctt ttggccccc 360

25 ctagggaatt gtttaacac ctaaaaccc ctgcttcct taaagggcg ttcttaatt 420

tgggggcggc 430

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<211> 350

<212> DNA

<213> Human

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<400> 60

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40 tatcatgtgt aagcccatct cctgggaggg ctaacatact accatctcca aggagaggca 180

tgattccgaa tcaccacag acagctcgat caccatacgt atcacccaac atatatact 240

45 tctaagactt gctagaaaca accaccacat ttgatgctta atcaccactc tgacgcgcat 300

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<210> 61

5 <211> 515

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<213> Human

<400> 61

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aataatcagg caaatcctta agaataaggg caattaagga tgactagccc tacaagattt 180

15 taaaaaggat tcattagtgt aaaaaatgtg atgtagatac atgaataaaa taaaatcttg 240

aagtagatcc aaatatacat ggtagcagattg aatacaataa agatggcatc gtagcagtgg 300

20 agaaaagaag aattatttca taaaccttgt tggaatggct aggcaatcat ctggaaaaaa 360

atgaagtga ataataaaaa tatattctac actagcacia attataaata aagcagtgat 420

ttaaatgaga aaaattaaat cataatgatt tcaaagataa cataggataa ttctttata 480

25 gtcttctaaa atatatgact ttatgaattc tgact 515

<210> 62

30 <211> 611

<212> DNA

<213> Human

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aataatccac cagatacaag ttgcatcaa ctctgtgaa atatttttt tcctttttgt 180

40 tgggcatttt tatggcttaa atatagaatg accaatgcct ctagaacaaa ctgacctgg 240

tcagtgttat caagaagcag actgtttctt actttctttg tatttcctta cttatttaaa 300

45 ttgttataaa ttgatattt gatataataa acttcttttg ccagtgttgg tggcacacgc 360

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agtctacaga gcaagttcca ggctagccaa ggctatatat agaaactctg gcatgaaaaa 480

5 ccaaccaaac caaaccaaac caaaccagac cagaccagac cagaccagac caaaccaaac 540

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cagaccaaac t 611

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<210> 63

<211> 291

<212> DNA

15 <213> Human

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gaacacatgc tgaagatcat ctaactcaat atggcgcata ttctatgtc ttgctgcccc 180

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40 aggcacattg ttctctatg ccccgctacg ctttgccta gagctcggcg gtatctatat 240

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45 ctgattaga 309

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 agggatggaa tggactcgaa gggaatggaa tggaatggat tcgaatggaa aggaatggaa 180
 tggactcaaa aggaatggaa tggaatggac tcaaatggaa tggactcgaa ttgaatgaaa 240
 15 tgtaatggaa tagactcgaa tggaatggaa cgaaattt 278

<210> 66
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<400> 66
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 atagctagta aactccccct gt 142
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 40 aaagatgata tectcatgct tccatgcact gcgagtagaa gacatactga gcatagtgtg 120
 attattttcc caacaaattg gcattcatag atagaataag ctgactaaga ctacttagcc 180
 ccacattttt ttctacttgc tccaatagca ctaacaaata ggaagctctt gcttgcctcc 240
 45 caaagctcca tttccttgaa agcagaagtg taatattact tcttag 286

<210> 68
 <211> 179
 5 <212> DNA
 <213> Human

 <400> 68
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 10 tagaagtcac tattttatta taaaacatgt ggattagata ttttcattta tgtgattaaa 120
 ctttctaaac aaagattata tgaattatct taaagattta aaaagtaatt aagttaaatt 179
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 30 cttcagtcta agaacgtaaa tccatggaag aattttaagc aggggtgtgc cttgaccaca 120
 tttgaattc taaactgtct ctgggtgggt gtgggtgcc ccaagagcat gtgttcattg 180
 agggagactg gttttttaca gttgtctatg agagagatga cagttgcctg gattatgggtg 240
 35 gtgacattgg agataagcag gtagacagat tctcagtgtg ttaggagaga aaaatcaata 300
 ggaaatttaa aataaataat taactgtggc cataggagga aggagtcttt gggttnggtt 360
 40 ctcaatttct gcatgagaaa aaaggtggac 390

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gatgacataa aatgagatga aatgagatgt aatgatggaa tgagatgaga tgaaatgaga 120

tgaaatgata gatgagataa aatgatgata tgaaatgatg agatgaatga tgagatgatg 180

15

agatgaatga tgaaatgaaa tgatgagatg agatgatgaa atgaaatggt gagatgaaat 240

gatgagatga aatgaaatag tgaaatgaaa ttgaaataaa atcgaaatga gagatgaaat 300

gatgagatga tgaaattgat gaaatgatga gatgtgatga gatgaaatga tgagatgaga 360

20

tgagatgaca tgaaataatg aatgaaatt gaaatgagat aagatacgag ctgagatgca 420

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g

481

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 15 ngacgcgccg tacaggntna attatggan cttacatggn aaaggggcan ctcaatgtcc 120

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 35 aaatgaatct gagatgaaat gagatgaaaa ntgatacgaa aaatgatata aaaaatatga 180
 cctgagatga aatgagatga aaaatgatac gaaaaatgat ataaaaaata tgacatgaaa 240
 40 tgaaatgaga tgatatgaaa tgacataatg aaatgatgaa ttgatgatat tgaaatgaaa 300
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 catgaaatga gctgaaatga gatgaaatga aatgagatta aatgatgaga tgaaaaatga 420
 45 tgagatgaaa aatgagatga gatgatgaga tgagatgaga tgaattgaga tga 473

<210> 73
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 5 <212> DNA
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 gaaatgagat gaaataaaat aatgaaatga tgaaataatg aaatgaaaat gagatggaaa 180
 30 tgatgagatg agaagaaatg atgagatgaa atgatgaaat gatgagatga ganaaaatga 240
 gatgaaatga tgagatgaga tgaaatatga tgagttgaaa tgacataatg aatgaaatga 300
 35 tgaaatggaa taatgaaatg gaaatgatga gctgagatgc aatgagttga aatgagatga 360
 aatgatgaaa tgatgagatg aaatgatgaa atgaaataat gaaatgagat gaaataaaat 420
 aatgaaatga tgaaataatg aaatgaaaat gaaatggaaa tgatgagatg agaagaaatg 480
 40 atgagatgaa atgatgaaat 500

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<223> n is a, c, g, or t

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10 <221> misc_feature

<222> (57)..(57)

<223> n is a, c, g, or t

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tgaaatgatg agatgaaatg atgagatgag atgtgatgaa atgatgatat gaaatgatga 120

cataaaatga gatgaaatga gatgtaatga tggaatgaga tgagatgaaa tgagatgaaa 180

20 tgatagatga gataaaatga tgatatgaaa tgatgagatg aatgatgaga tgatgagatg 240

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25

<210> 75

<211> 155

<212> DNA

<213> Human

30

<400> 75

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taaaatgatg aaatgatgag gtgatgagat gaaatgatga gatgaaatga tgagatgaga 120

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<210> 76

40 <211> 367

<212> DNA

<213> Human

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cgccatgaaa ttctgctcg attagcttac gttgtttgga tagaggccaa acaaggctgt 180

45 tatcggtagc aggaatggat gttcgatttc gtagaatacg cctgagagac ggcaatact 240

ctcacgagag gcagcaggcg cgtaaattac ccaattacaa caagtagagg tagcgaagga 300

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30 tcagtgtttg gggtttattt taaaagaat aggggtgccac cagatgttct ttagtggagg 180

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 30 tattacaaa atattggac cattantaaa gantagggcc aaccnaatt tttctgaaa 180
 ttccgttaa atagccgta aatgtttta cccatttcat attggatacc ttaaattata 240
 35 ataatggatt ttattgttaa attgtgtgtg tgtggtgtgt atgccctgtc tttctcctc 300
 taccattatt gtcactttat gtttgaacc ccctttacc ttccttaaag gaaaaaaagg 360
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35 ccttgatgtt caagtattta agaccctatg cnaatatttt ttaccttttc taataaacca 120

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ggaaaanaaa tccttttaa anggaantcc aagggaagga nctgnncaa nactcccn 180

30 ccaataaaaa aaacntttt ggaaangggg aaa 213

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gaaatgaagt gaaatgaaat tgaaatgaga tgagatgaaa tgagataaaa tgatgagatg 180

15 aaatgagaag aaatgagatg aaatgatgaa atgatgagat gagatgaaaa atgatgggat 240

gagaaatgag atgaaatgat gggatgaaat gaaatgaaat aatgaaataa tgaaatgaaa 300

20 tgaattgata atattgaagt gaaattgaaa gatgagattg gatgaaatga tgagatgaaa 360

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 25 gacctctgaa tgtattantg anncaagtga tagccaagat attttgaaga aaaatagata 120
 ntagggacct gctctataag cccatcataa ttattatga agttataaca agtaaaacag 180
 taaggtatgt ggcatggaat agagaacca gaaacagacc caatgcatgg gtacaggata 240
 30 taacacaggg aaatgagggg caatatatgg ttctgggata attatttata tggggaaaat 300
 aaagaaattg gatccctacc tcacacatac aaaaaaaatc ataattgaat taaaaacttg 360
 35 catgtgaaag gaaagacttt aaaacattta gaaaaagtat tggaggctat gatcttgggg 420
 taggaaagca ttctttttt tt 442

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 aggagggaaa agaaagaaag gaaggaagga aggaaaagaa agaaagaaag gaaggaagga 120
 15 aggaaggaag gaagg 135

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 aacttcctca gaaggacaag agacaaagaa gtgggggagg ccttcctatc catagctgag 180
 35 agggtttatt cttgtgggtt ctgctgtcag agcctttgga tgtctgatct gagatggagc 240
 aaccccgagt agacagaact tttagattt tgggggggtt aaaaggcctc aagcaaattc 300
 40 taaaactttc ttgaacccc ctggcatagg ctcagtttcc ctgact 346

<210> 85
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 45 <212> DNA
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<400> 85

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5 gaaaagaaaa tggtttttt tgccgaaatc aaccgggtaa 100

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10 <212> DNA

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attacctctt tttgtacca ctcttaaagg ccaggaacat atttgagaa gcctagtgt 180

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tcttttacc cggcactcgg gtccaccctc gcggcaccag aggtattctc cggcgagtcg 180

35 ttaaccatcg caatgccga ccgagtttaa ggaccactcc ccaccttct cattagttaa 240

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gtcgagtccc tcttctctc tttatgcatt tagagcgctt tcgtaagagt tttccctaga 360

40 ttcttctaag cgtagcgcgt ctactccaat gtttcgtta atccagccc aactaacgcc 420

gcggaggagt cgatccgtct actcctatcc cgtcggctcg gatttactac aggagctaag 480

45 aaaacaaaa gtaccagccc taaaggaaag tcaaaggacg cccgtaaaaa a 531

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acagccaaac cggtcgcccc aaggcctccg tcgttttata atatattccg ttacgtata 180

15 aggaacgaac ccccttcat taccacggtc ccgctcgc ctcttctcc attcgcaaca 240

gttctattcc tttagcctc ccgtacctgc ttccagaaca tcgcaccgcc atagtcgaaa 300

gatagcaaag attaccagc ttctattcct cgccccagag ccgagtaaatt cgaagtttat 360

20 agaggcggaa tccaaccatt caagagttat aacaagttat cggcactcgg gggatcagaa 420

tataaactta atgtccctt tattctcccg gacgcccctt ttaaccactt ctctctatct 480

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 aattaaggna aggnntaaaa aatttaacca anggggggtt taaagggnnt tttttttta 180
 aaaaaaaagg taaancccc ccctttttt ttgggttggg gtgggaaaat ttgggaanc 240
 45 cttaaccccc gggtttttgg gttttttgg ccaaaacccc ccggaaaaaa attaaaaaaa 300

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332

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cggttgtaac tattaaaaca taagttaat cggtatttaa aattttaaaa tcaaaaaaaaa 120

15 taaaatatat gcaaccctcc attccaagga agtatgatgt tactagatta tctgaaaatt 180

ctcct 185

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ntnnanctnc ngntnaacat cacagctnct ccnagcatca cctgtctagn tancngnggg 180
30 ttttctetta tntgnngnch naacatctgc nngctctgnt annaanaatt ncataccgcn 240
canngtctnt gacgntgtga tgcatacgnt tgggcagagn gancaatang tgngcatatg 300
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atgagatgat gaaataaaat gatgaaatga gatgtgatga gatgaaatga ngagatgaaa 180

40 tgatgagatg agatgacatg aaataaatga aataatgaaa tcgaaatgag atgagaagat 240

acgagatgag atgaaatgat gagatgaaat gatgaaatga gataagatga aaagagttga 300

45 tgagatgatg agatgaaatg agatgaaaag agatgaaatg agatgaaatg aaatgatgag 360

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 gaaatgaaat gatgaaatga atagatgtga catgaaatga gctgaaatga tgagatcaaa 180
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gaaatgaaat gatgagatga aatgaggatga aatgaaatta gatgaaacgt aatgagatga 180

30 aatgacctaa tgaaatgaaa aatgaaatg aaataatgaa atgaggatgaa attaatgag 240

atgatgaaat taaatgatga aatgaaataa tgaaatggaa atgaaatgga aatgatgaga 300

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ntgagatgaa aagagatgaa atgagatgaa accgaaatga tgagatgaaa tgaggatgaaa 420

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 30 ngaggaagac cc 132

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 aaaaatagat aatggtaatc caagcacgat ggtagccatc actctaattg ctttggggtt 180
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